

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC430PR	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/03667	International filing date (day/month/year) 09/04/2003	(Earliest) Priority Date (day/month/year) 10/04/2002
Applicant MEDESTEA INTERNAZIONALE S.R.L.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☒ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

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International application No.
PCT/EP 03/03667

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 7-9 (all completely)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: claims 1-5,7-9 (all completely)

A process for the preparation of human stem cells from a sample of human adipose or muscle tissue

2. claims: claims 6 (completely), 11-14 (all partially)

Human muscle stem cells and uses thereof

3. claims: claims 10 (completely), 11-14 (all partially)

Human adipose tissue stem cells and uses thereof

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International Application No

/EP 03/03667

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/06 C12N5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, PAJ, BIOSIS, WPI Data, EMBASE, CHEM ABS Data, LIFESCIENCES
SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
D2 Y	HAUNER H ET AL: "Effects of epidermal growth factor (EGF), platelet-derived growth factor (PDGF) and fibroblast growth factor (FGF) on human adipocyte development and function." EUROPEAN JOURNAL OF CLINICAL INVESTIGATION. ENGLAND FEB 1995, vol. 25, no. 2, February 1995 (1995-02), pages 90-96, XP000198734 ISSN: 0014-2972 abstract page 91 page 94 - page 95 ----- -/--	1,2,7-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

24 July 2003

Date of mailing of the international search report

14. 05. 04

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International Application No

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(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X D3	HAUNER H ET AL: "Cultures of human adipose precursor cells." METHODS IN MOLECULAR BIOLOGY (CLIFTON, N.J.) UNITED STATES 2001, vol. 155, 2001, pages 239-247, XP001153827 ISSN: 1064-3745 page 241, right-hand column page 242 - page 243 -----	1,2,7-9
D5 X	DEASY B M ET AL: "Muscle-derived stem cells: characterization and potential for cell-mediated therapy." BLOOD CELLS, MOLECULES & DISEASES. UNITED STATES 2001 SEP-OCT, vol. 27, no. 5, September 2001 (2001-09), pages 924-933, XP002248769 ISSN: 1079-9796 page 925, right-hand column page 927, right-hand column page 929, left-hand column, last paragraph page 929, right-hand column, paragraph 1 -----	1-5
D2 Y	HILTON D J ET AL: "Distribution and binding properties of receptors for leukaemia inhibitory factor." CIBA FOUNDATION SYMPOSIUM. NETHERLANDS 1992, vol. 167, 1992, pages 227-239; discussion 239 - 244, XP009013008 ISSN: 0300-5208 abstract page 228 - page 229 -----	1-5,7-9
D4 Y	WO 01/53465 A (SHAMBLOTT MICHAEL J ;GEARHART JOHN D (US); UNIV JOHNS HOPKINS MED) 26 July 2001 (2001-07-26) page 1, lines 12-20 page 2, lines 13-15 - lines 21-23 page 4, lines 20,21 page 12, line 20 - page 13, line 9 page 28 - page 32 page 51 page 56 - page 57 page 67 - page 68 -----	1-5,7-9

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0153465	A	26-07-2001	AU 2973101 A	31-07-2001
			EP 1248834 A1	16-10-2002
			WO 0153465 A1	26-07-2001
			US 2003175954 A1	18-09-2003
